

FIG. 1

FIG. 2 is a block diagram of a set-top box 130-A, showing its internal components and connections. The set-top box 130-A is connected to an INTERNET via a COMMUNICATIONS PORT 217. The internal components include a CPU 210, SDRAM 218, FLASH 219 (containing CHAN. TABLE 219A and CHAN. TABLE 219B), and a COMPACT FLASH 231. The CPU 210 is connected to an ASSET MANAGER FLASH 222, a DISPLAY CONTROLLER 223, and an AUDIO CONTROLLER 224. The DISPLAY CONTROLLER 223 is connected to a DISPLAY 132 via COMPOSITE VIDEO and S VIDEO signals. The AUDIO CONTROLLER 224 is connected to a SPEAKER 225, an EXT. MIC. 227, and an INT. MIC. 226. The set-top box 130-A is also connected to a PRINTER 233, a SYSTEM CONTROLLER 211, an INTERRUPT SWITCH 214, and a SMART CARD 232. The SYSTEM CONTROLLER 211 is connected to a MCU 212 via PS/2 ports. The MCU 212 is connected to a remote control 202 and a keyboard 203 via an infrared receiver 213. The remote control 202 has buttons for MENU (F1), HOME (F2), and a numeric keypad. The keyboard 203 has a numeric keypad and a function key. The set-top box 130-A is also connected to a SET-TOP BOX 131 via a SCART connection.

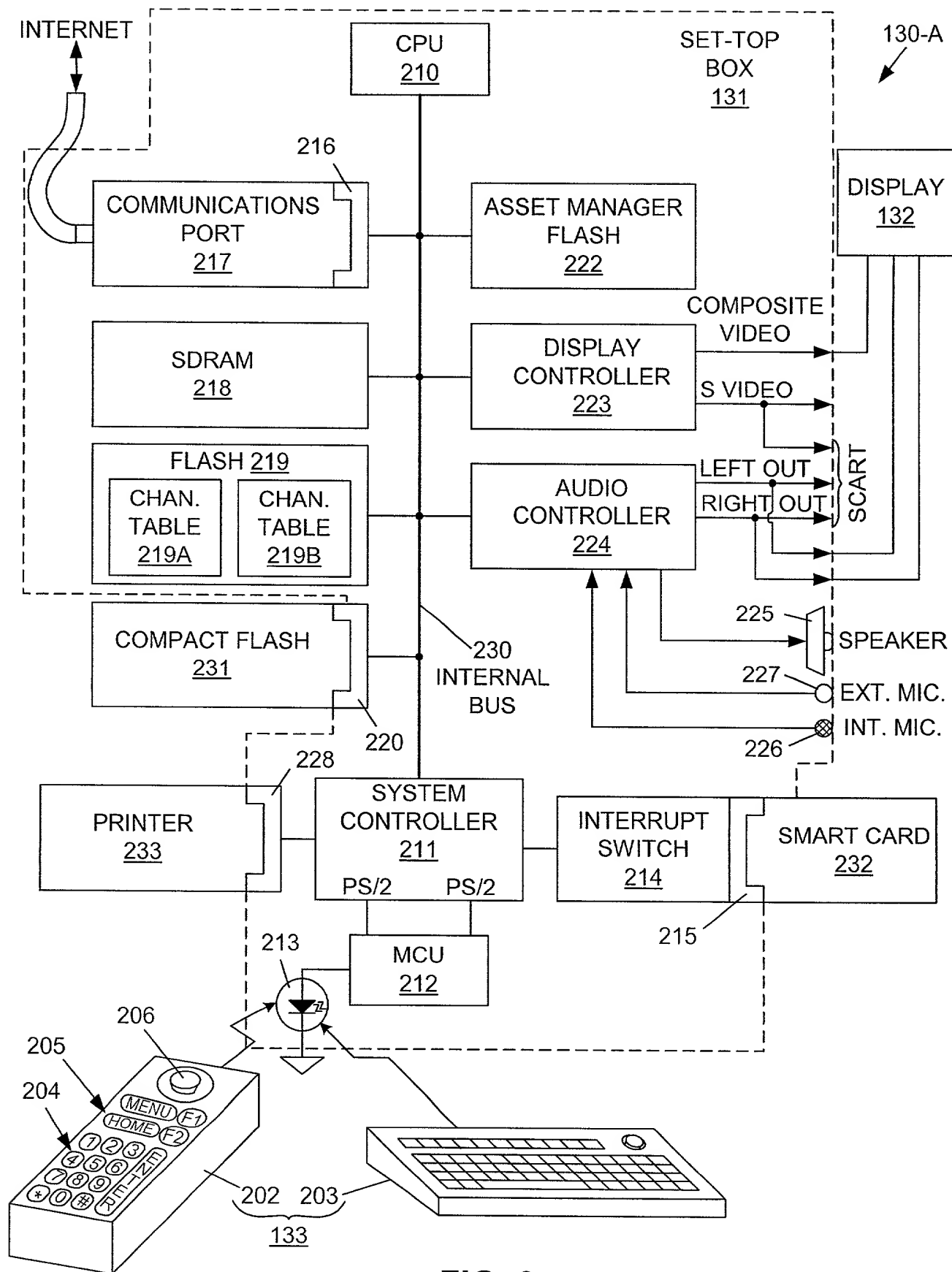


FIG. 2

CHANNEL TABLE FLASH 219

USER 1 CHANNEL TABLE 219A

CH. NO.	SITE NAME	SITE ADDRESS	PARENT CODE	FAVORITE
010	XYZ NEWS	WWW.XYZN.COM	Y	Y
020	ON-LINE STORE	WWW.OLS.COM	Y	N
030	WEATHER CNTR	WWW.WC.COM	Y	N
040	ABC BROKERAGE	WWW.ABCB.COM	Y	N
050	NET SCHOOL	WWW.NETS.COM	Y	N
060	ADULT SITE	WWW.ADULT.COM	Y	N
411	TEL DIRECTORY	WWW.ABELL.COM	Y	N
911	AMBULANCE S.	WWW.SOS.COM	Y	N

USER 2 CHANNEL TABLE 219B

CH. NO.	SITE NAME	SITE ADDRESS	PARENT CODE	FAVORITE
010	XYZ NEWS	WWW.XYZN.COM	Y	N
020	ON-LINE STORE	WWW.OLS.COM	Y	N
030	WEATHER CNTR	WWW.WC.COM	Y	Y
040	ABC BROKERAGE	WWW.ABCB.COM	Y	N
050	NET SCHOOL	WWW.NETS.COM	Y	Y
060	ADULT SITE	WWW.ADULT.COM	N	N
411	TEL DIRECTORY	WWW.ABELL.COM	Y	N
911	AMBULANCE S.	WWW.SOS.COM	Y	N

FIG. 3(A)

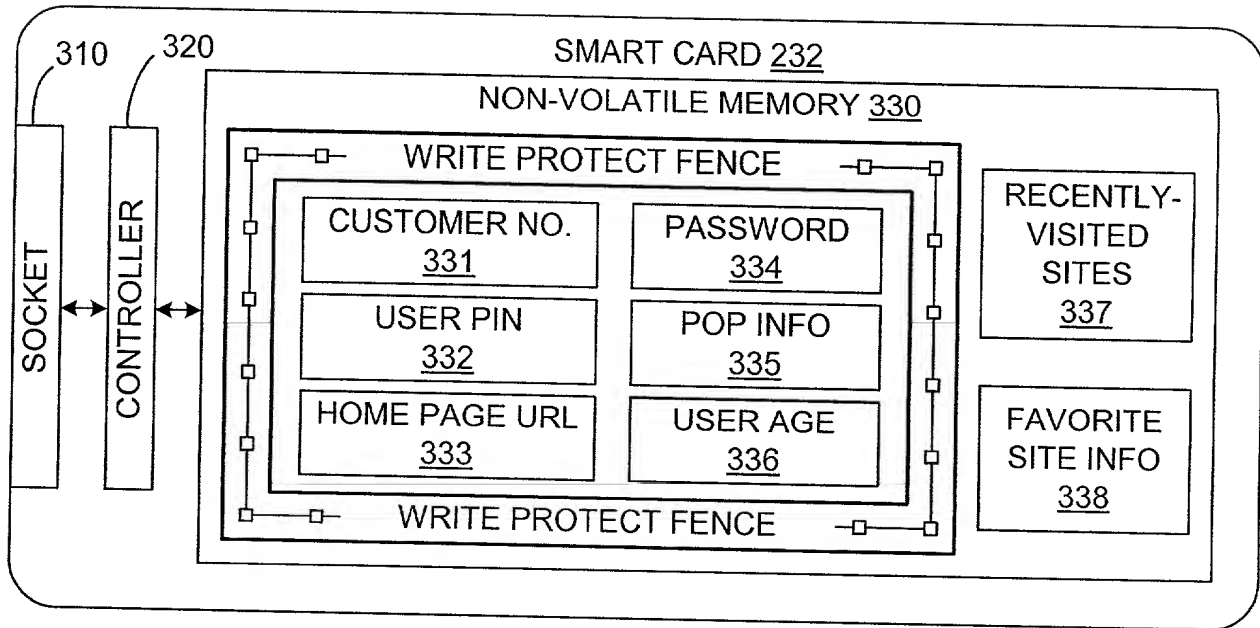


FIG. 3(B)

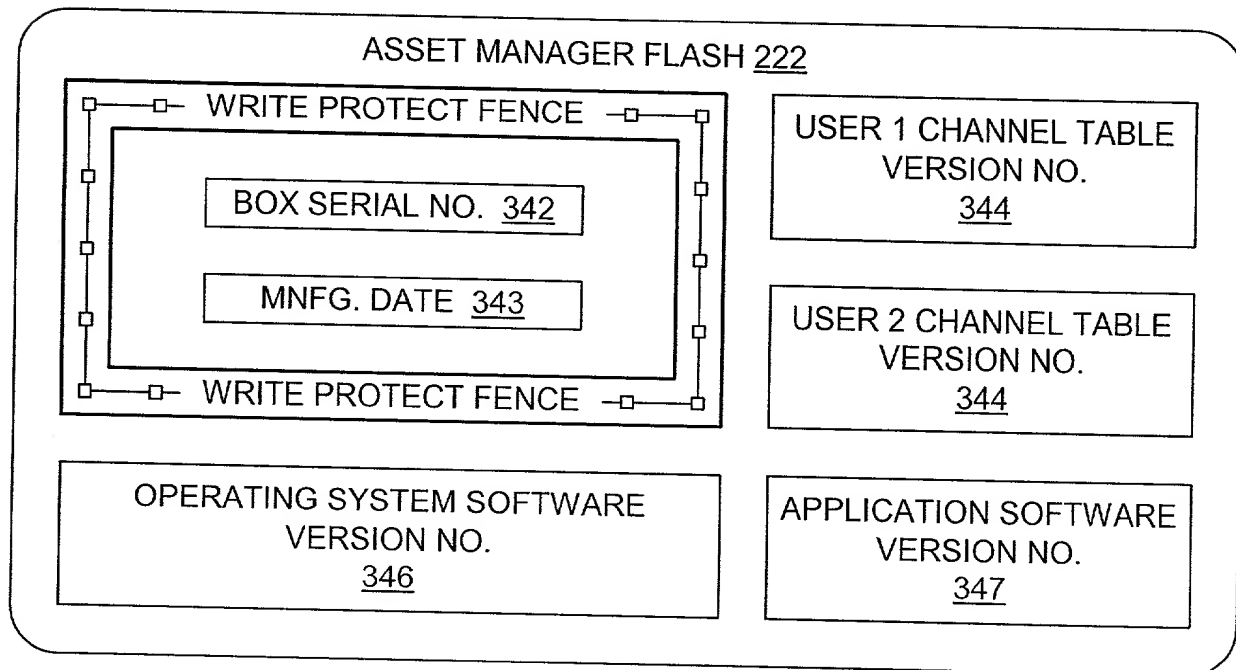
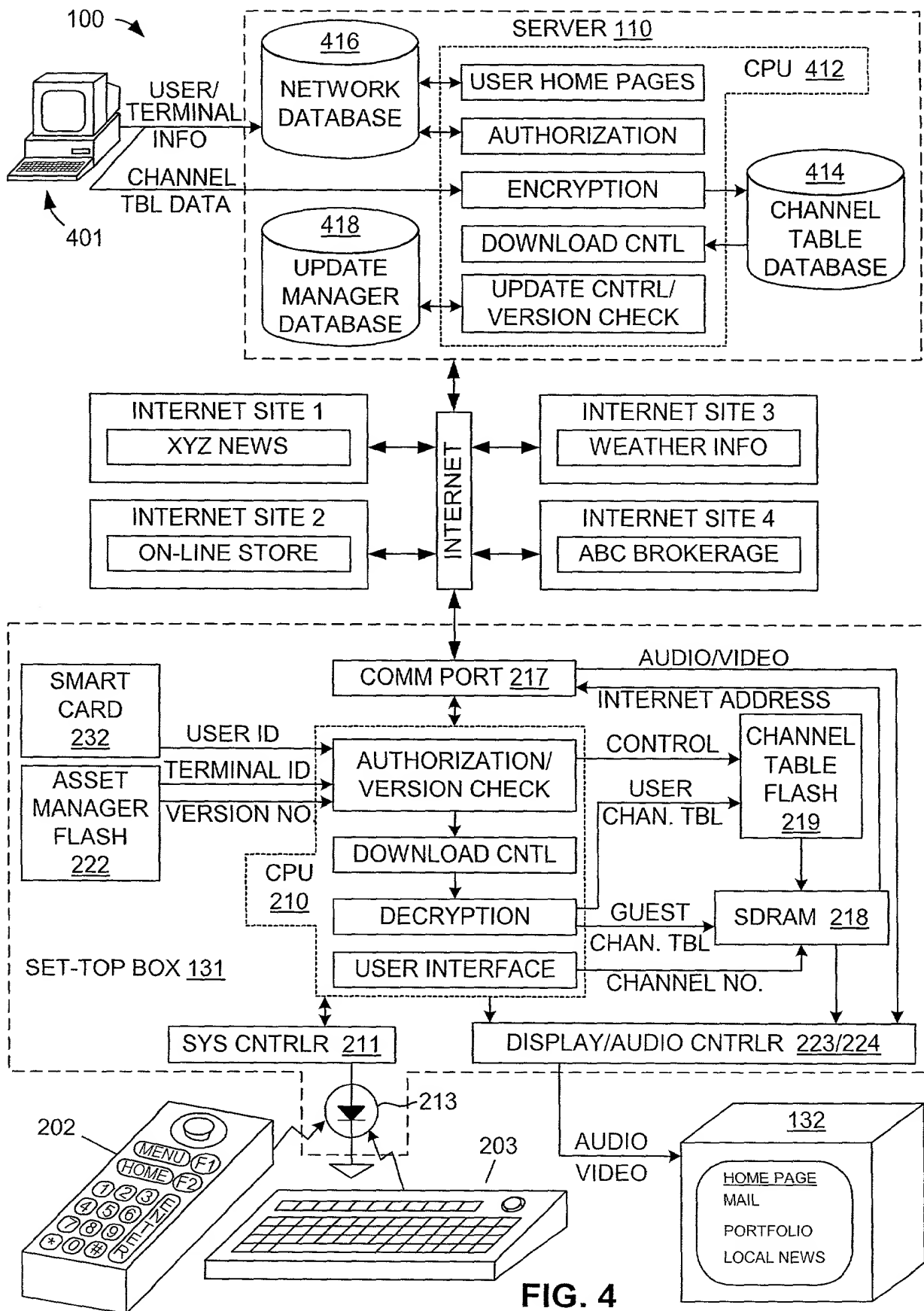


FIG. 3(C)



CHANNEL TABLE DATABASE <u>414</u> (MASTER CHANNEL TABLE 112-A)			
CHANNEL NUMBER	SITE ADDRESS	SITE NAME	RATING
010	WWW.XYZN.COM	XYZ NEWS	PG
020	WWW.OLS.COM	ON-LINE STORE	PG
030	WWW.WC.COM	WEATHER CNTR	G
060	WWW.ADULT.COM	ADULT SITE	X
411	WWW.ABELL.COM	TELEPHONE DIRECTORY	G
911	WWW.SOS.COM	AMBULANCE SERVICE	R

FIG. 5(A)

NETWORK DATABASE <u>416</u>				
USER NAME	HOME TERMINAL NO.	USER STATUS	CHANNEL TABLE TYPE	CUST. NO.
JOHN DOE	TERMINAL 1	CURRENT	ALL	CUSTOMER 1
JANE DOE	TERMINAL 1	CURRENT	SHOPPING	CUSTOMER 1
BOY DOE	TERMINAL 1	CURRENT	CHILDREN	CUSTOMER 1
JOE JOCK	TERMINAL 2	CURRENT	SPORTS	CUSTOMER 2
S. STUDENT	TERMINAL 3	CURRENT	EDUCATION	CUSTOMER 3
DAN DELAY	TERMINAL 4	EXPIRED	ALL	CUSTOMER 4

FIG. 5(B)

UPDATE MANAGER DATABASE <u>418</u>			
TERMINAL NO.	USER NAME	CURRENT CHANNEL TABLE VERSION AVAILABLE	UPDATE SCHEDULED?
TERMINAL 1	JOHN DOE	STANDARD 020	YES
TERMINAL 1	JANE DOUGH	SHOPPING 007	YES
TERMINAL 2	JOE JOCK	SPORTS 013	NO
TERMINAL 4	DAN DELAY	STANDARD 020	NO

FIG. 5(C)

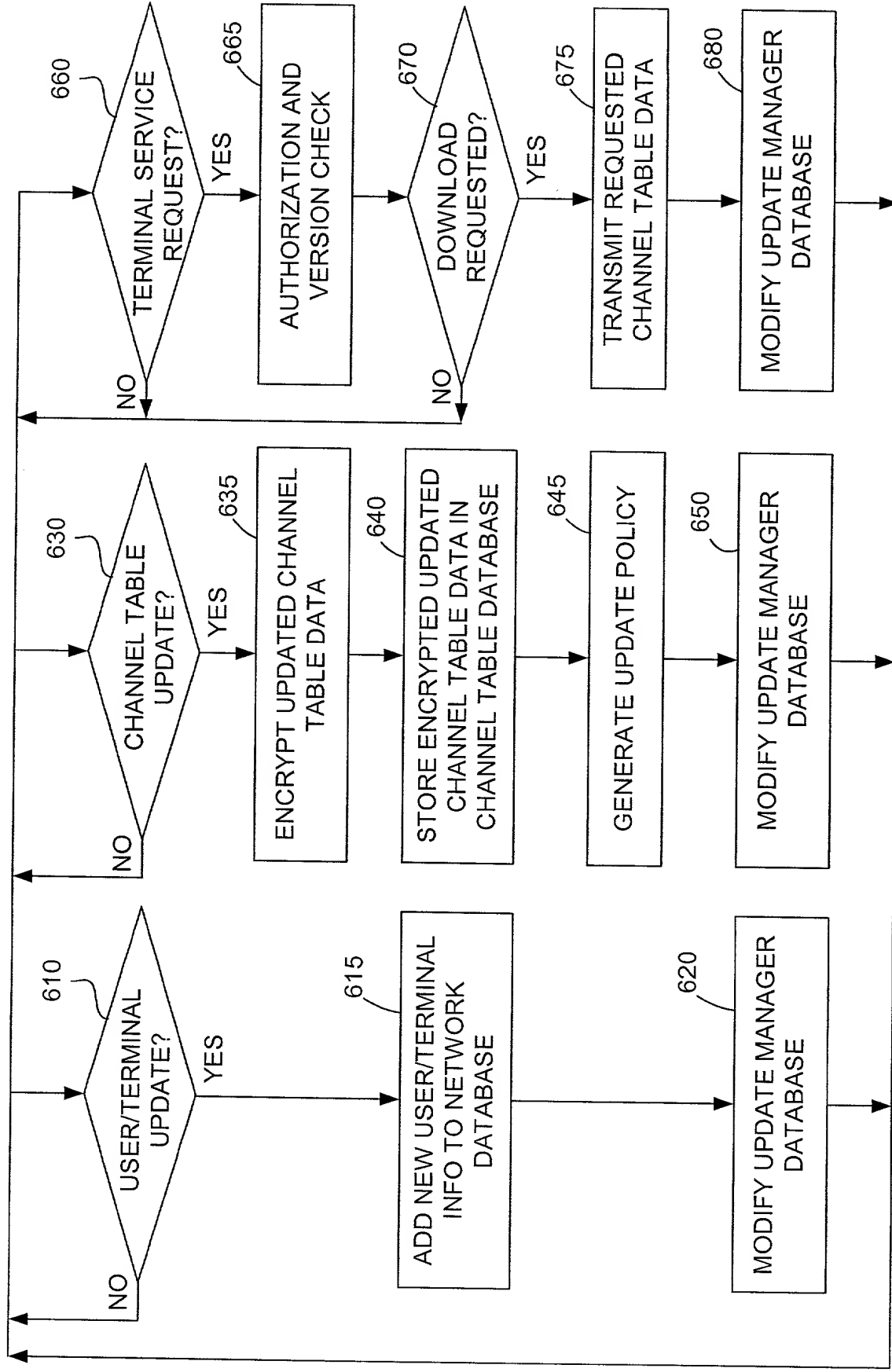


FIG. 6

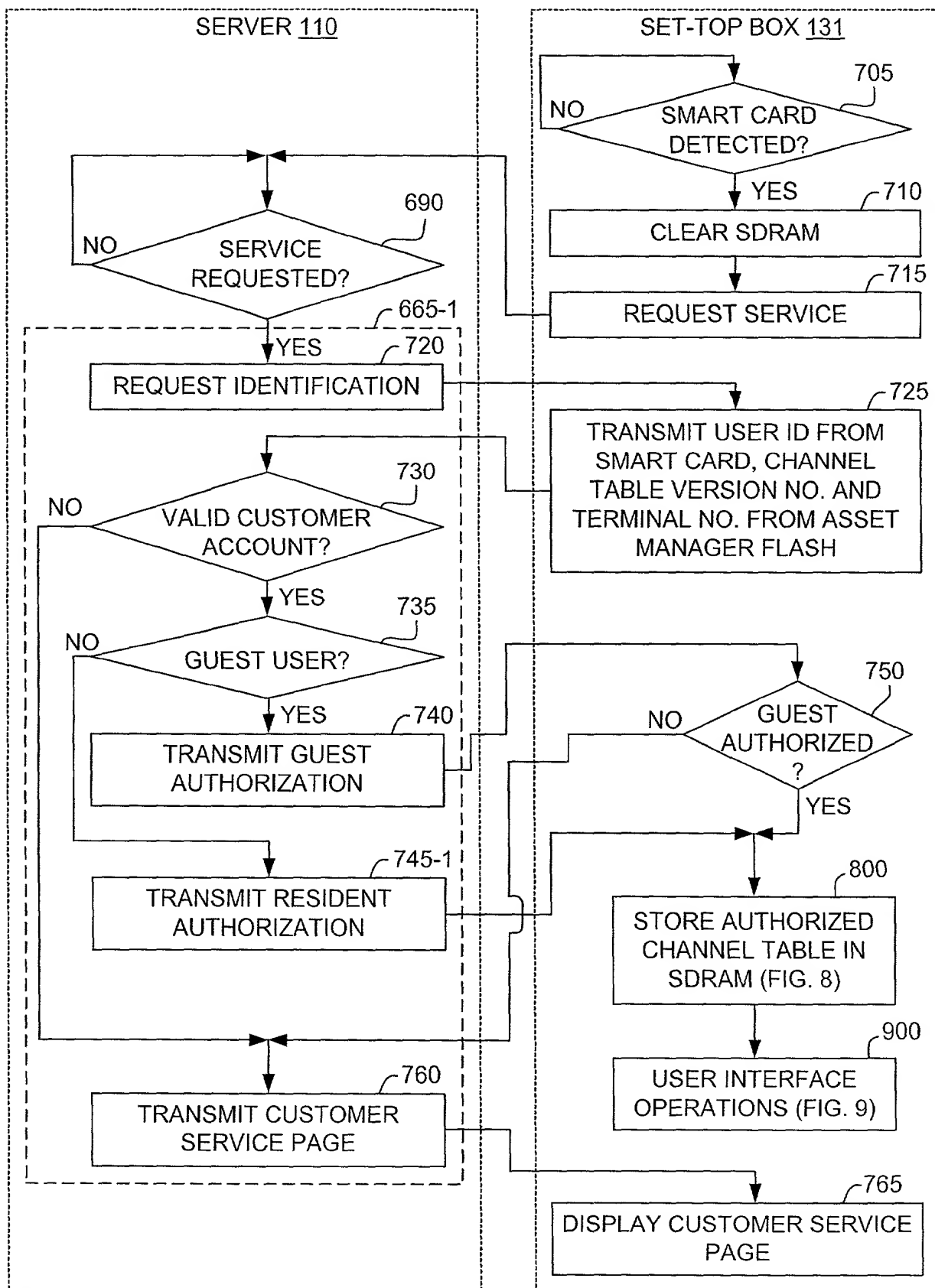


FIG. 7

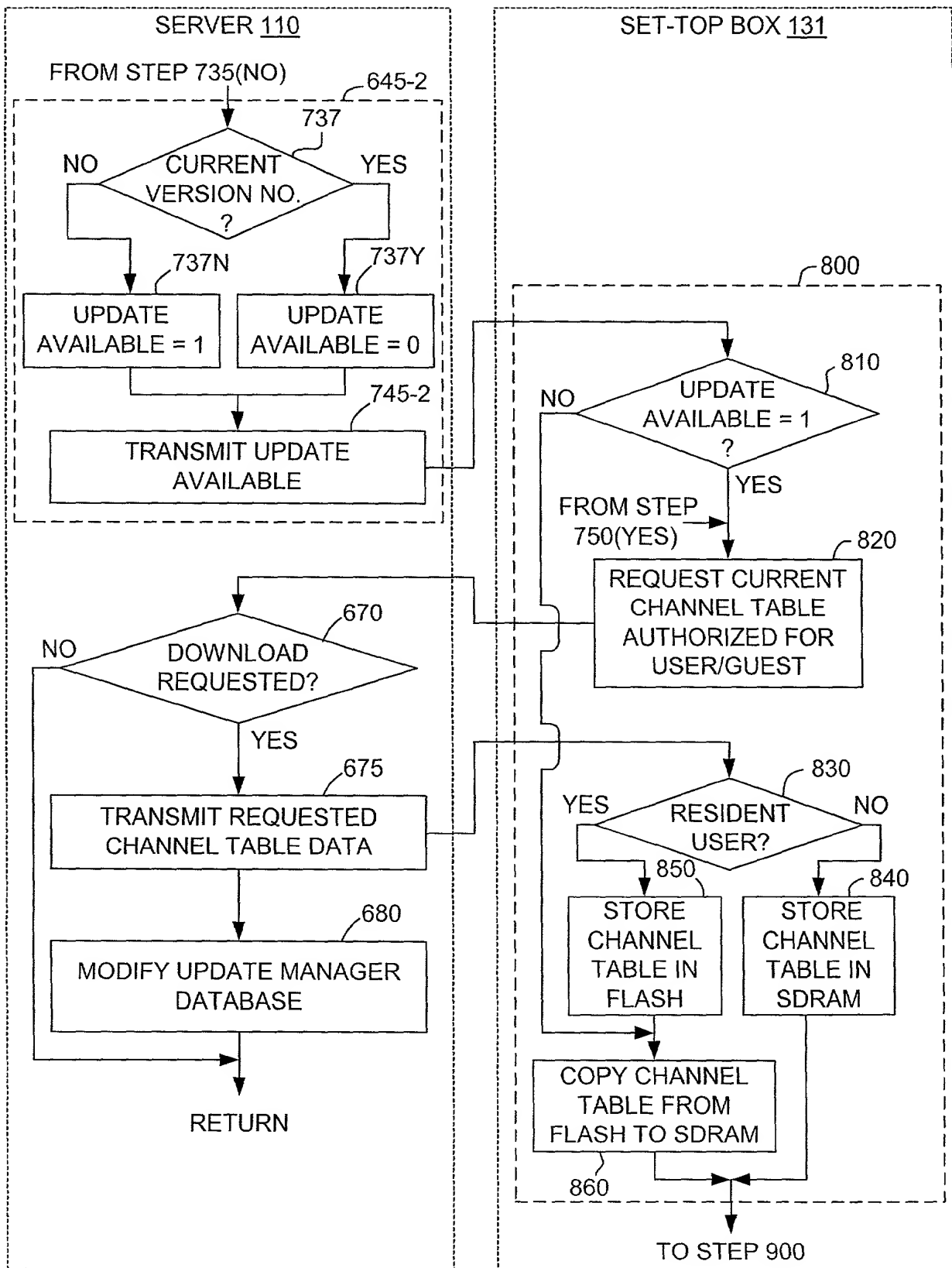


FIG. 8(A)

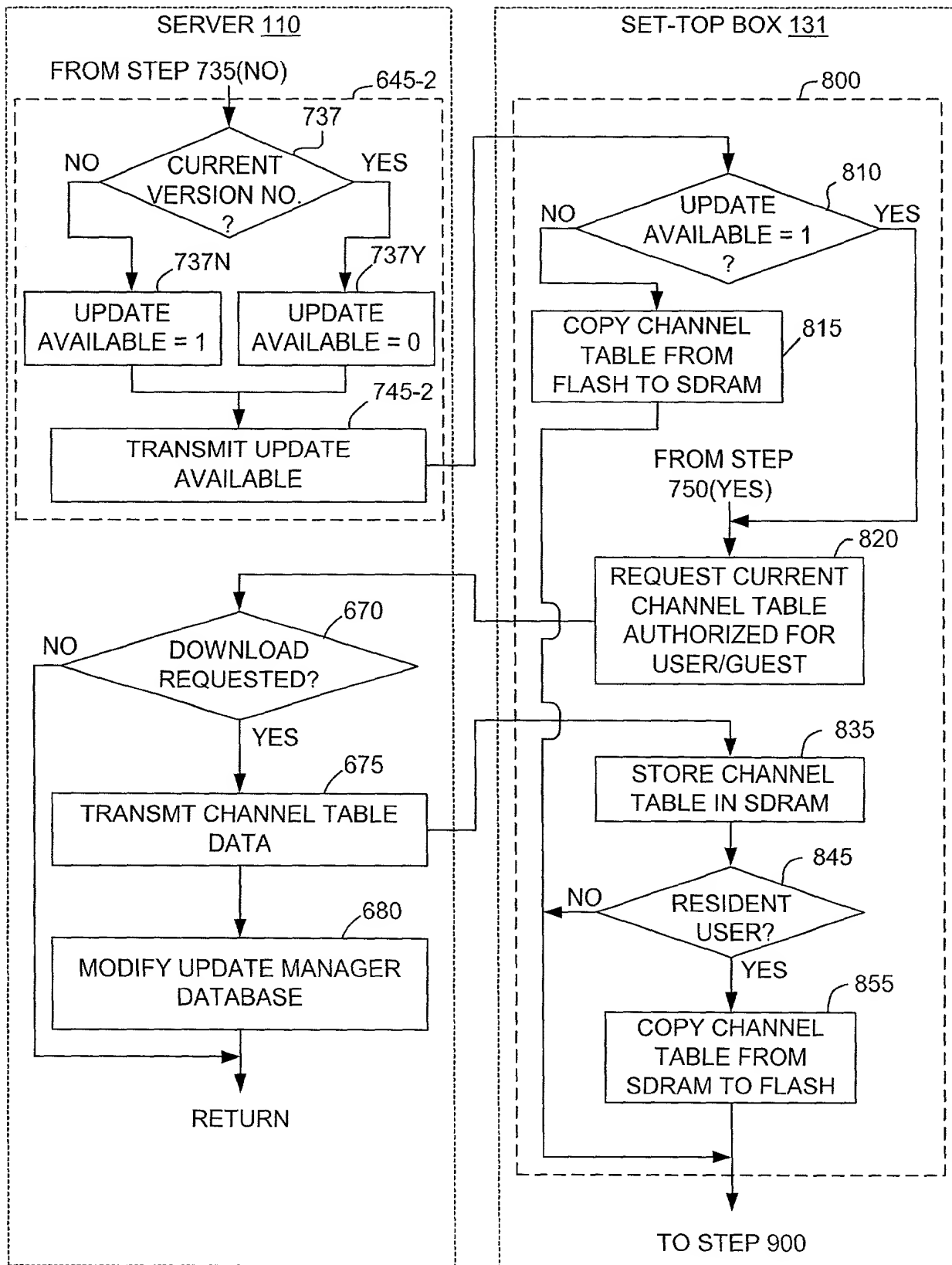


FIG. 8(B)

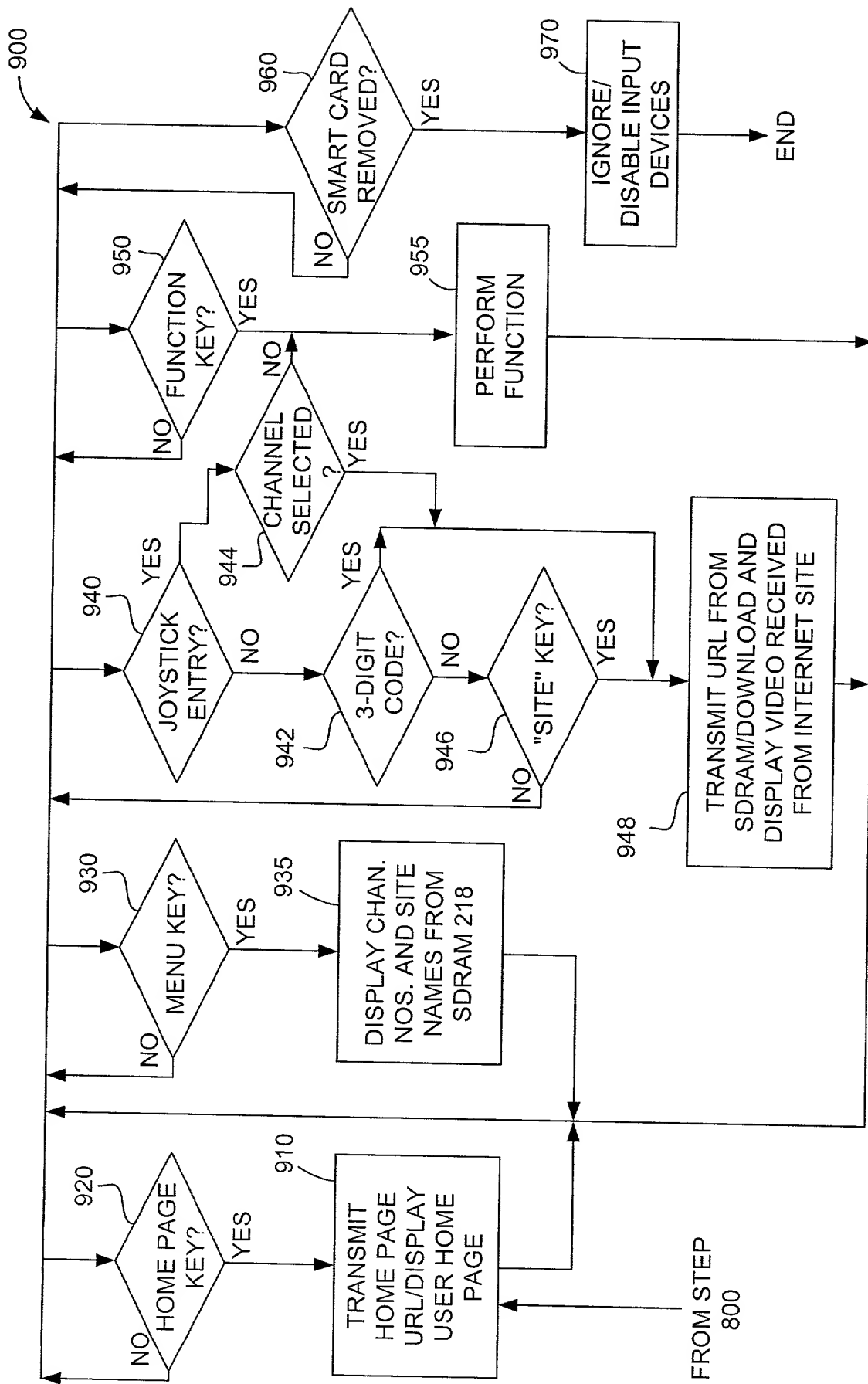


FIG. 9

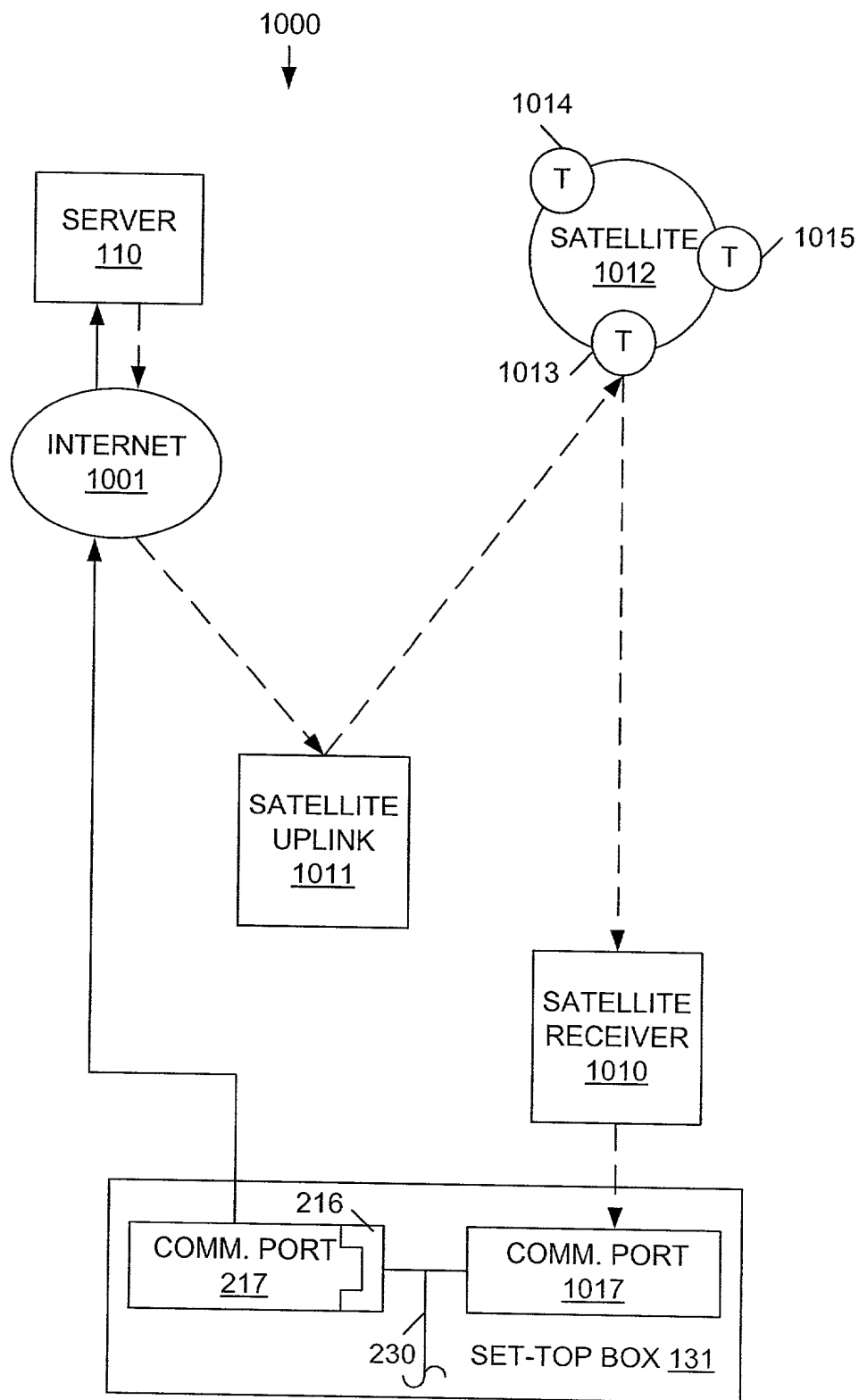


FIG. 10

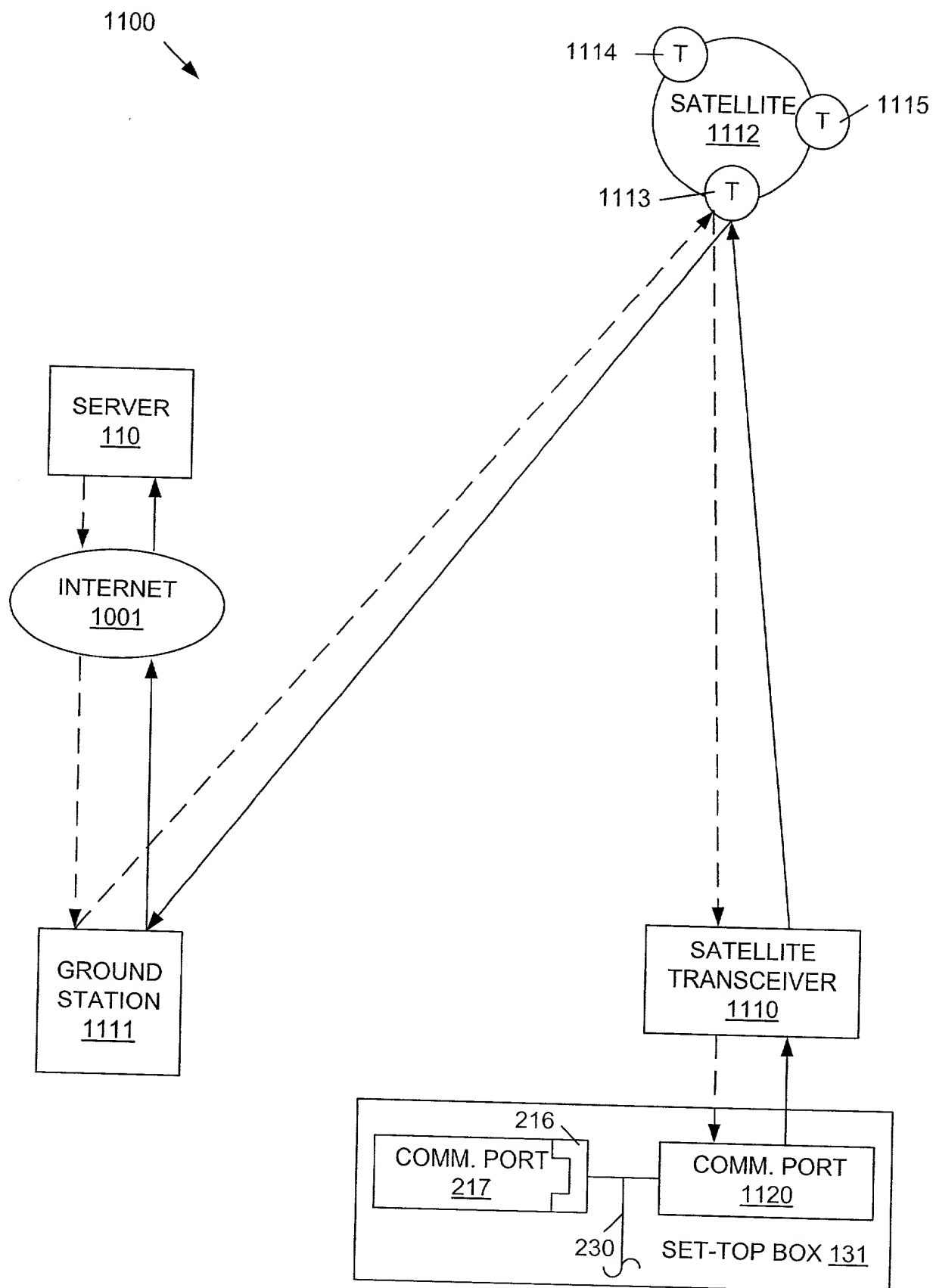


FIG. 11